

ABSTRACT

A device for transport and cleaning of air by using electric ion wind, includes an elongated corona electrode), a target electrode and a direct current source that has one terminal connected to the corona electrode and the other terminal to the target electrode, the design and voltage of the corona electrode between the terminals being such that a discharge generating air ions occurs at the corona electrode. The target electrode has an extension in the longitudinal direction of the corona electrode an extension transverse to the longitudinal direction of the corona electrode. The target electrode has a certain permeability to the air flow that is generated between the electrodes, and the device has outlet openings for the air flow.